

FIG. 1A

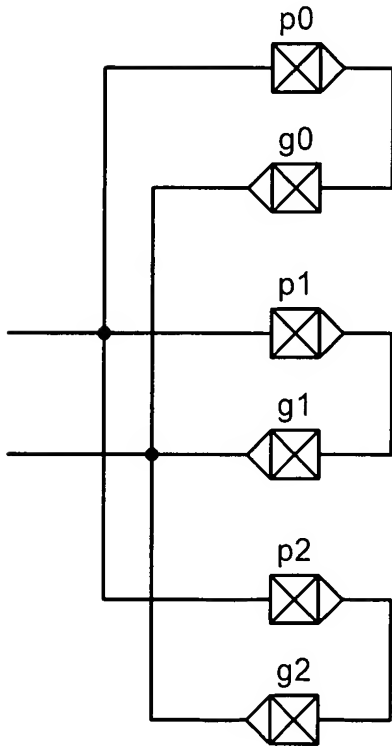


FIG. 1B

state E where
 E = (p0 -> S1
 | gU -> E)
 S1 = (p1 -> S2
 | g0 -> E)
 S2 = (p2 -> F
 | g1 -> S1)
 F = (pU -> F
 | g2 -> S2)
 end

FIG. 1C

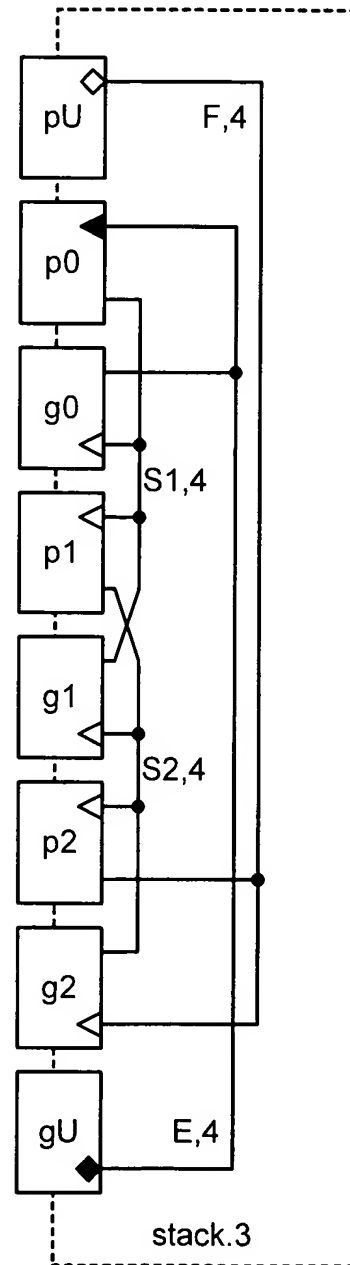


FIG. 1D

205020-46616001

10091994.030502

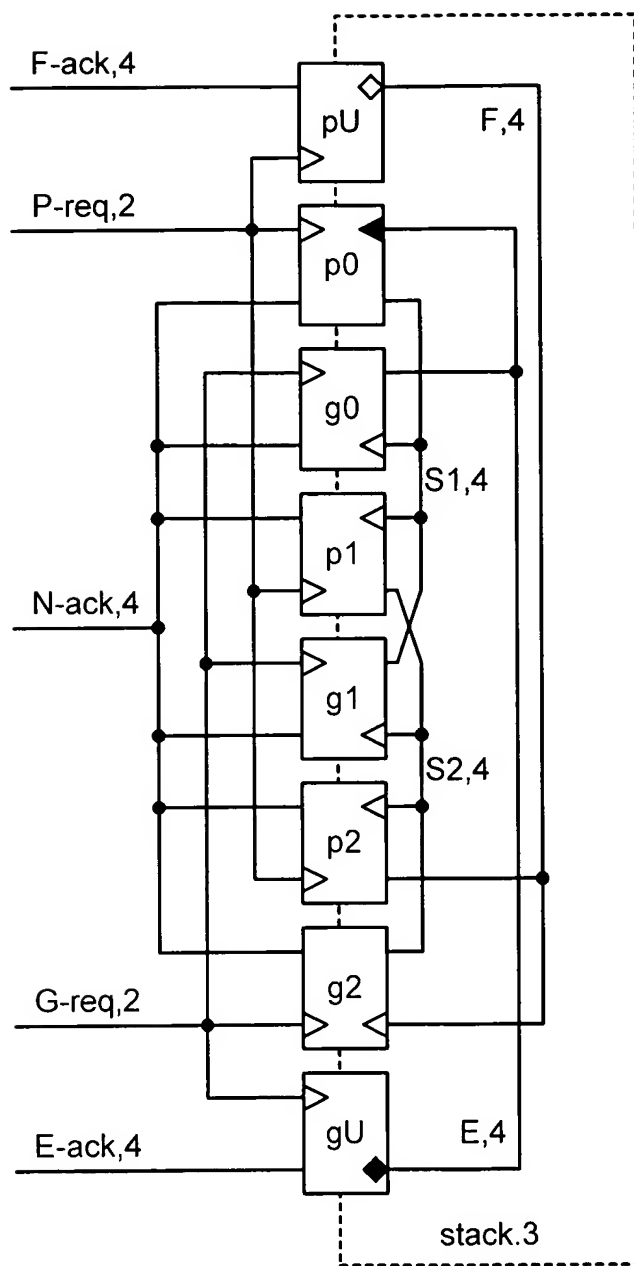


FIG. 2

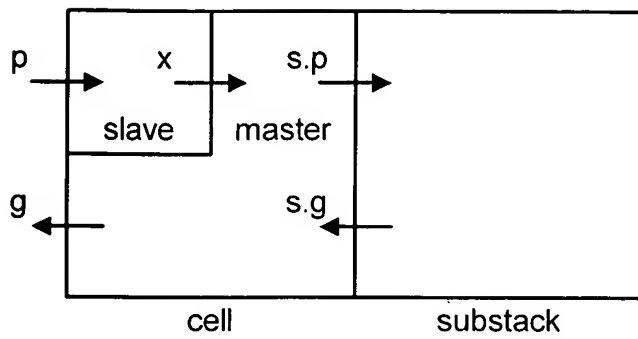


FIG. 3A

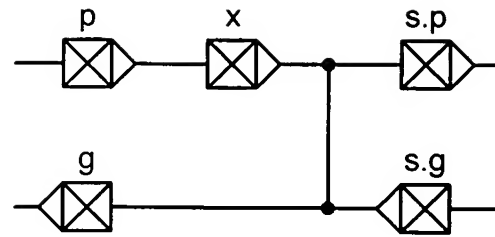


FIG. 3B

```
cell = ( p -> s.p -> x -> cell
        | g -> s.g -> cell )
```

FIG. 3C

```
cell =
state N where
  N = ( p -> P
        | g -> G )
  P = ( s.p -> X )
  G = ( s.g -> N )
  X = ( x -> N )
end
```

FIG. 3D

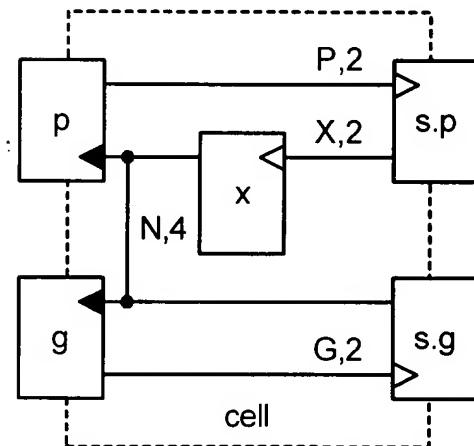


FIG. 3E

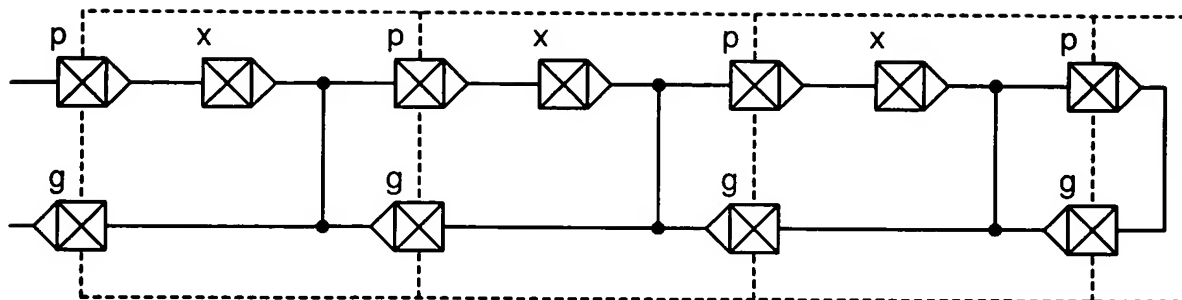


FIG. 4A

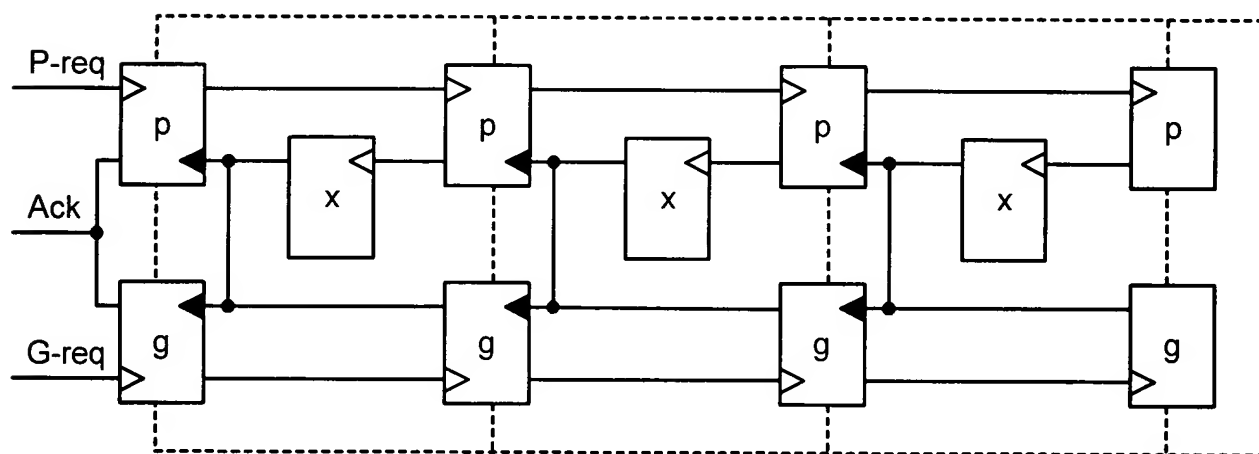


FIG. 4B

205020-16616001

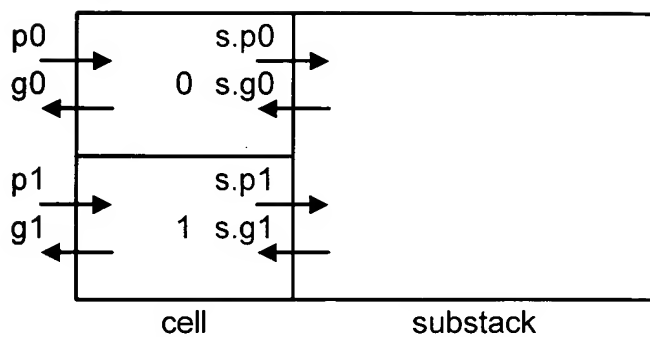


FIG. 5A

```

cell =
state N0 where
  N0 = ( p0 -> s.p1 -> N1
        | g1 -> s.g0 -> N1 )
  N1 = ( p1 -> s.p0 -> N0
        | g0 -> s.g1 -> N0 )
end

```

FIG. 5C

```

cell =
state N0 where
  N0 = ( p0 -> P1
        | g1 -> G0 )
  N1 = ( p1 -> P0
        | g0 -> G1 )
  P0 = ( s.p0 -> N0 )
  P1 = ( s.p1 -> N1 )
  G0 = ( s.g0 -> N1 )
  G1 = ( s.g1 -> N0 )
end

```

FIG. 5D

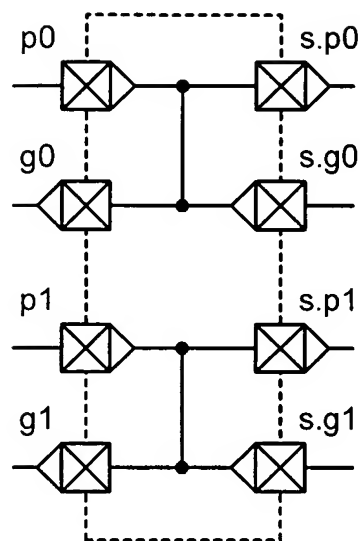


FIG. 5B

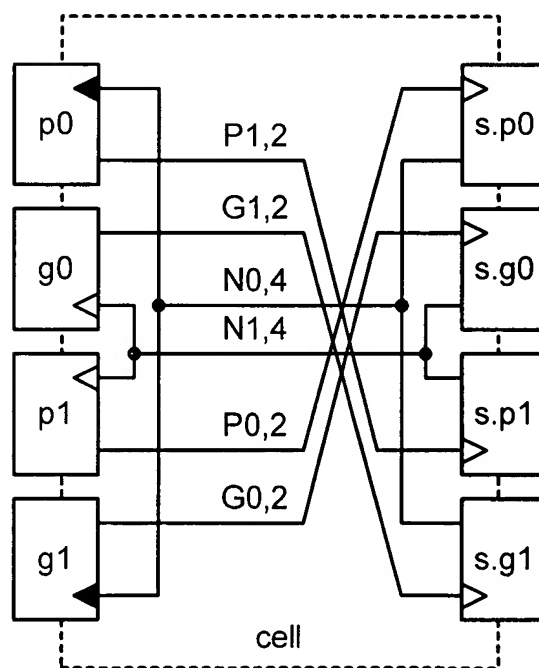


FIG. 5E

205020-46676001

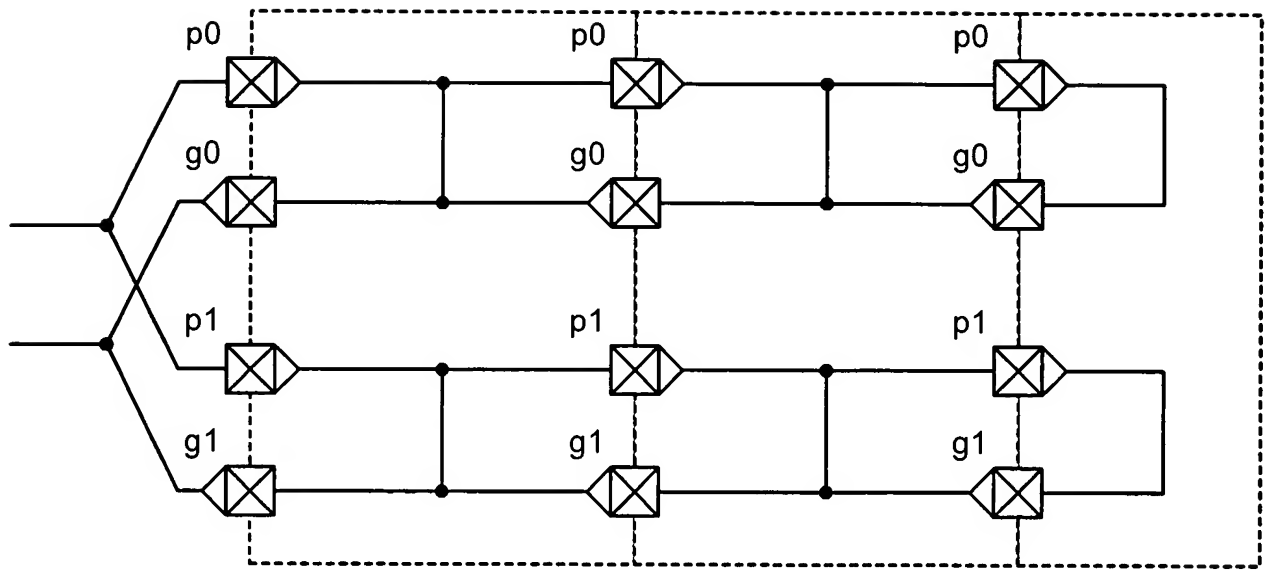


FIG. 6A

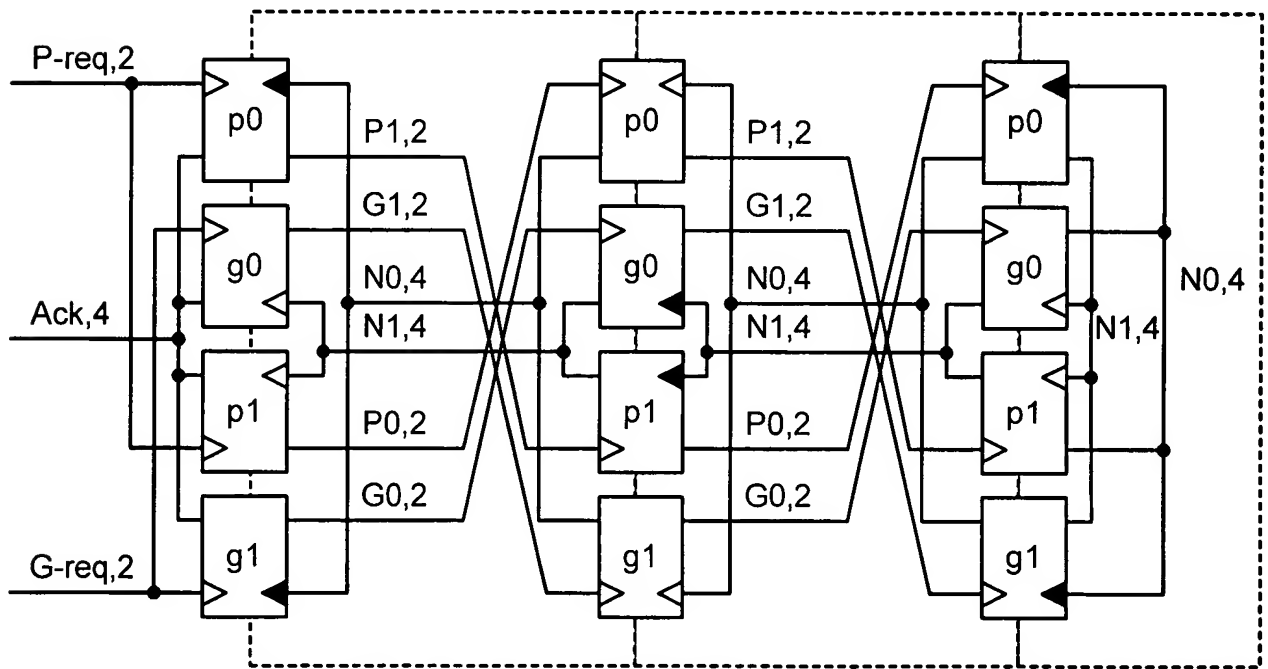


FIG. 6B

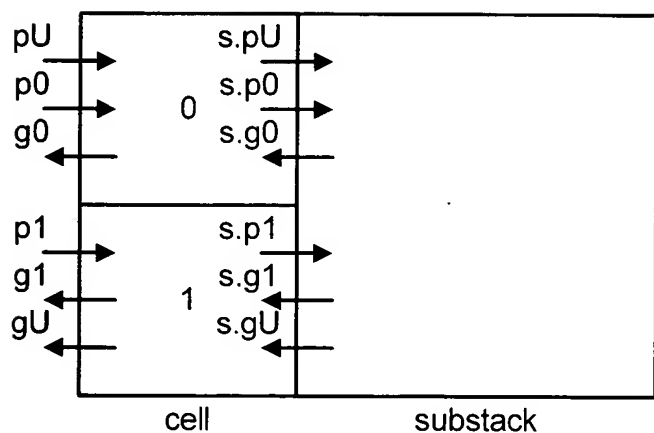


FIG. 7A

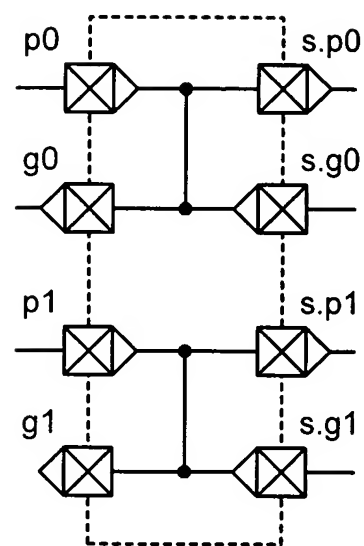


FIG. 7B

```

state E where
  E = ( p0 -> N1
        | gU -> E )
  N1 = ( p1 -> (s.p0 -> N0
                | s.pU -> F )
        | g0 -> (s.g1 -> N0
                | s.gU -> E ) )
  N0 = ( p0 -> s.p1 -> N1
        | g1 -> s.g0 -> N1 )
  F = ( pU -> F
        | g1 -> N1 )
end

```

FIG. 7C

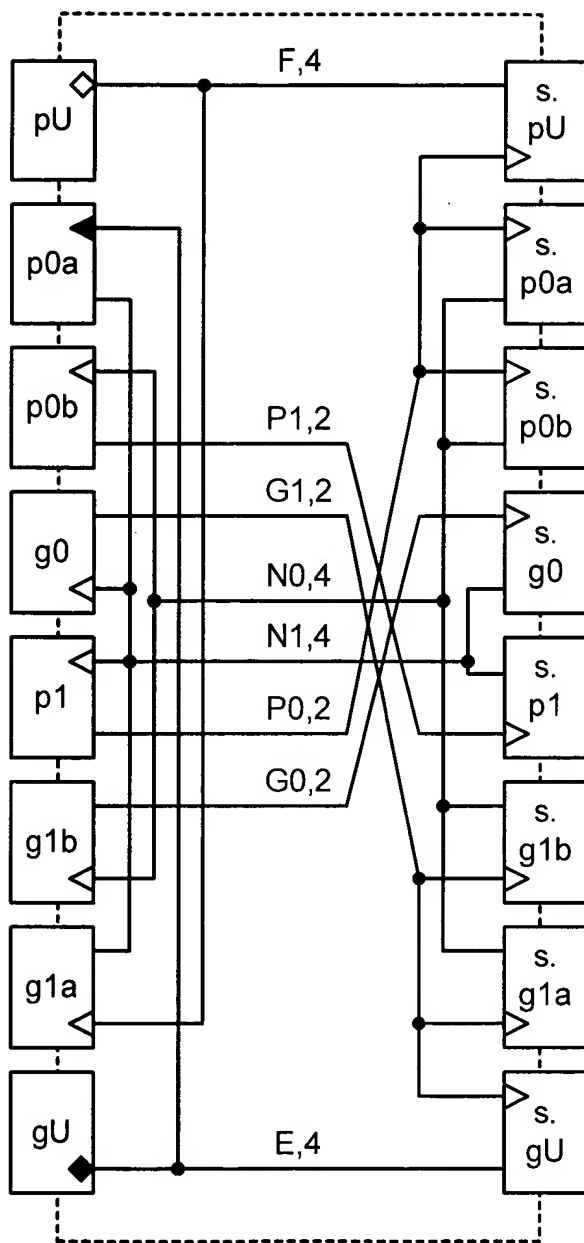


FIG. 8A

```

cell =
state E where
    E = ( p0a -> N1
          | gU  -> E  )
    N1 = ( p1  -> P0
          | g0  -> G1 )
    N0 = ( p0b -> P1
          | g1b -> G0 )
    F   = ( pU  -> F
          | g1a -> N1 )
    P0  = ( s.p0a -> N0
          | s.p0b -> N0
          | s.pU  -> F  )
    G0  = ( s.g0  -> N1 )
    P1  = ( s.p1  -> N1 )
    G1  = ( s.g1a -> N0
          | s.g1b -> N0
          | s.gU  -> E  )
end

```

FIG. 8B

2050E0-466T600T

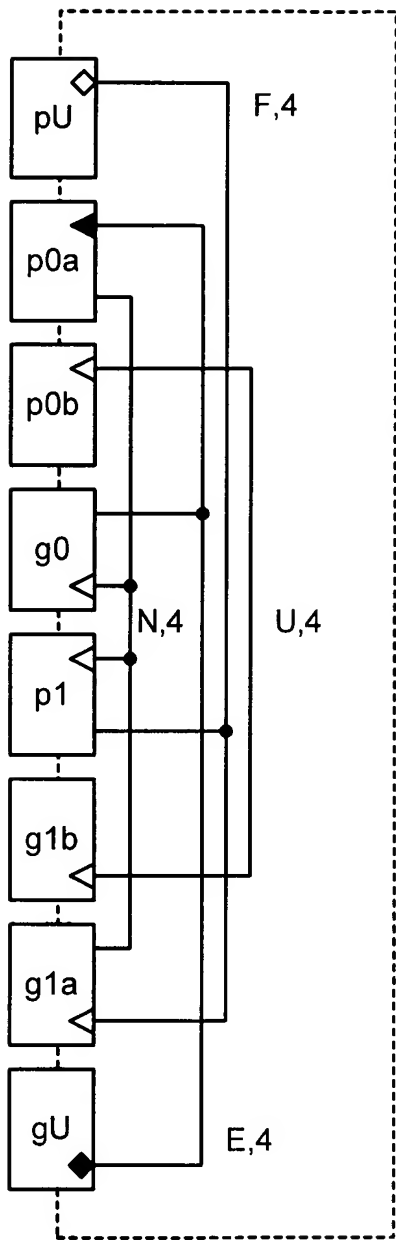


FIG. 9A

```
stack(2) =  
state E where  
    E = ( p0a -> N  
        | gU  -> E )  
    N = ( p1  -> F  
        | g0  -> E )  
    F = ( pU  -> F  
        | g1a -> N )  
    U = ( p0b | g1b )  
end
```

FIG. 9B

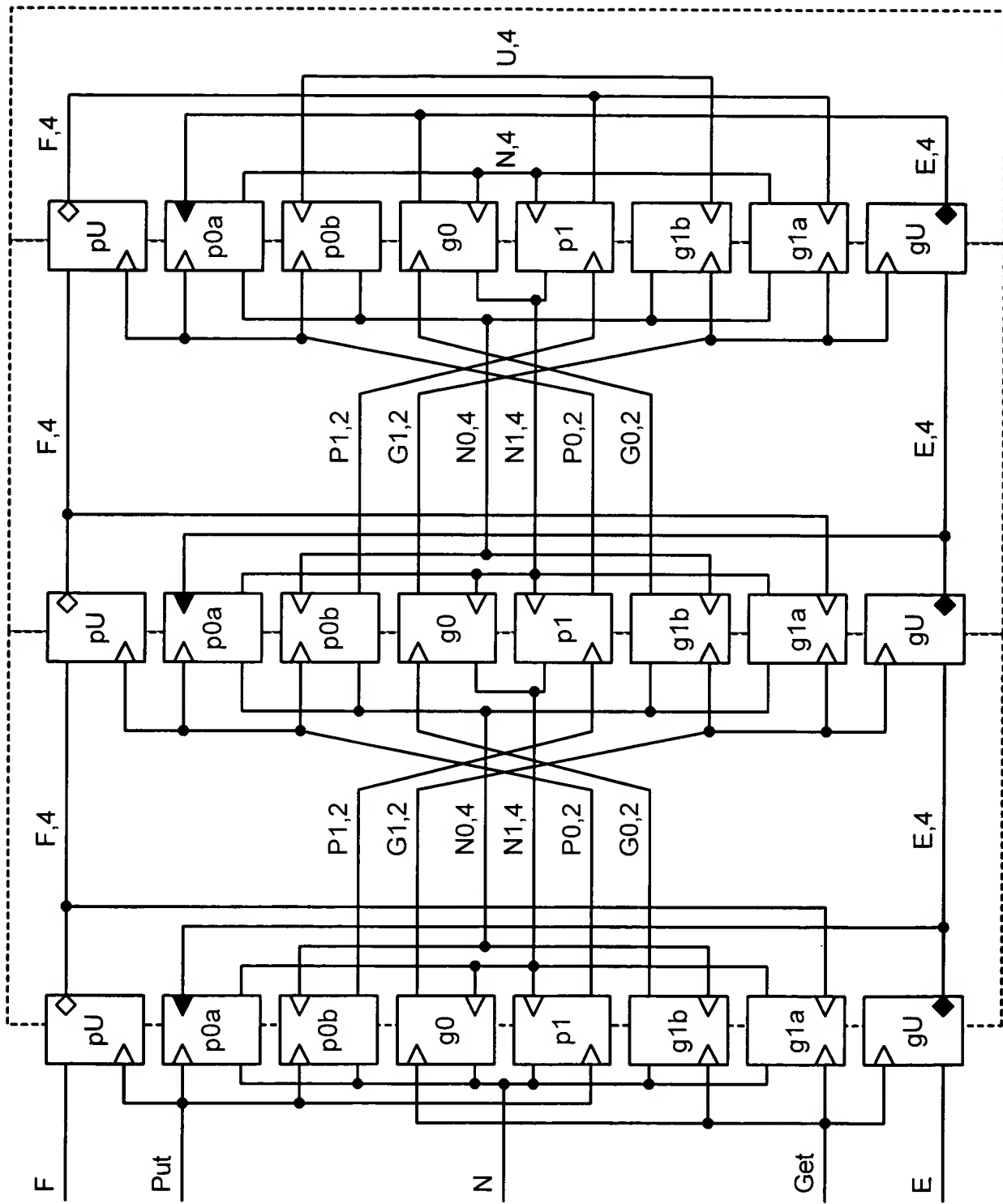


FIG. 10

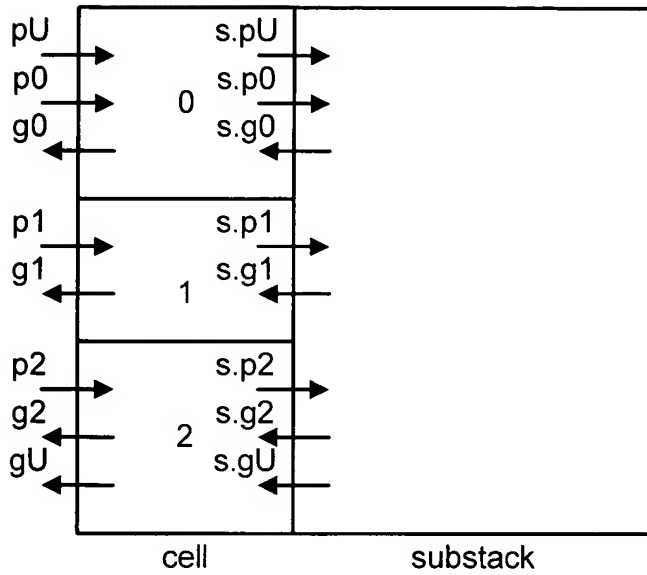


FIG. 11A

state E where

```

E = ( p0 -> N1
      | gU -> E )
N0 = ( p0 -> if full(1) then P1
        else N1 fi
      | g2 -> if full(1) then N2
        else G1 fi )
N1 = ( p1 -> if full(2) then P2
        else N2 fi
      | g0 -> if full(2) then N0
        else G2 fi )
N2 = ( p2 -> if full(0) then P0
        else N0 fi
      | g1 -> if full(0) then N1
        else G0 fi )
F = ( pU -> F
      | g2 -> N2 )
P0 = ( s.p0 -> N0
      | s.pU -> F )
P1 = ( s.p1 -> N1 )
P2 = ( s.p2 -> N2 )
G0 = ( s.g0 -> N1 )
G1 = ( s.g1 -> N2 )
G2 = ( s.g2 -> N0
      | s.gU -> E )

```

end

FIG. 11C

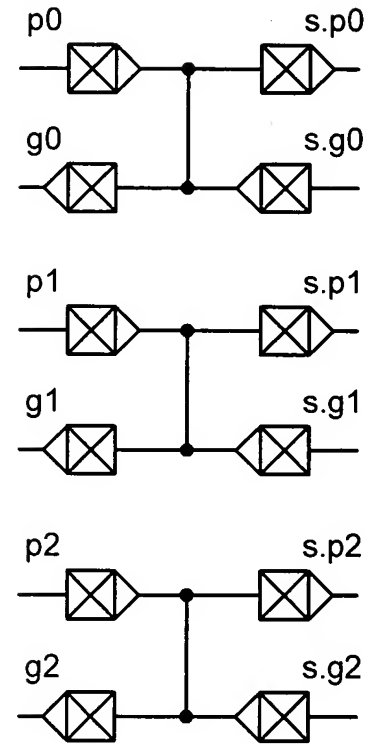


FIG. 11B

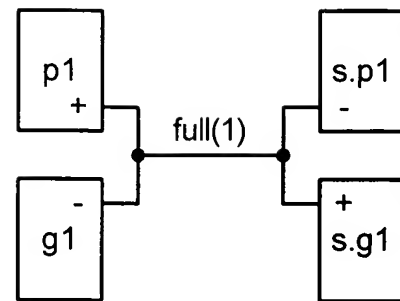


FIG. 11D

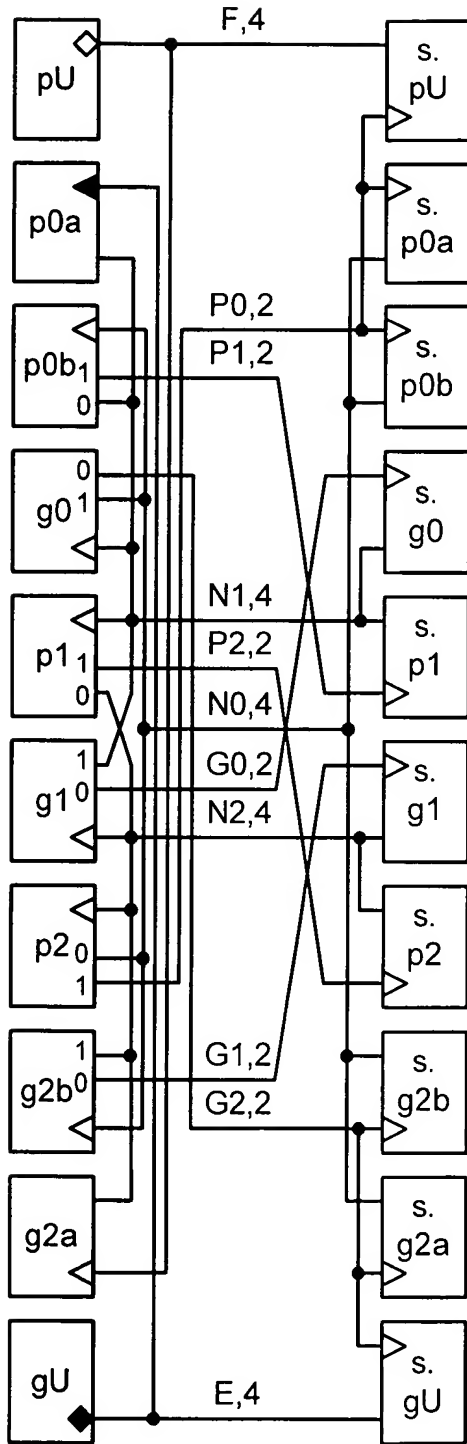


FIG. 12A

state E where

```

E = ( p0a -> N1
      | gU  -> E )
N0 = ( p0b -> if full(1) then P1
      |      else N1 fi
      | g2b -> if full(1) then N2
      |      else G1 fi )
N1 = ( p1  -> if full(2) then P2
      |      else N2 fi
      | g0  -> if full(2) then N0
      |      else G2 fi )
N2 = ( p2  -> if full(0) then P0
      |      else N0 fi
      | g1  -> if full(0) then N1
      |      else G0 fi )

F = ( pU   -> F
      | g2a -> N2 )
P0 = ( s.p0a -> N0
      | s.p0b -> N0
      | s.pU  -> F )
P1 = ( s.p1  -> N1 )
P2 = ( s.p2  -> N2 )
G0 = ( s.g0  -> N1 )
G1 = ( s.g1  -> N2 )
G2 = ( s.g2a -> N0
      | s.g2b -> N0
      | s.gU  -> E )

```

end

FIG. 12B

2050E0-466F6001

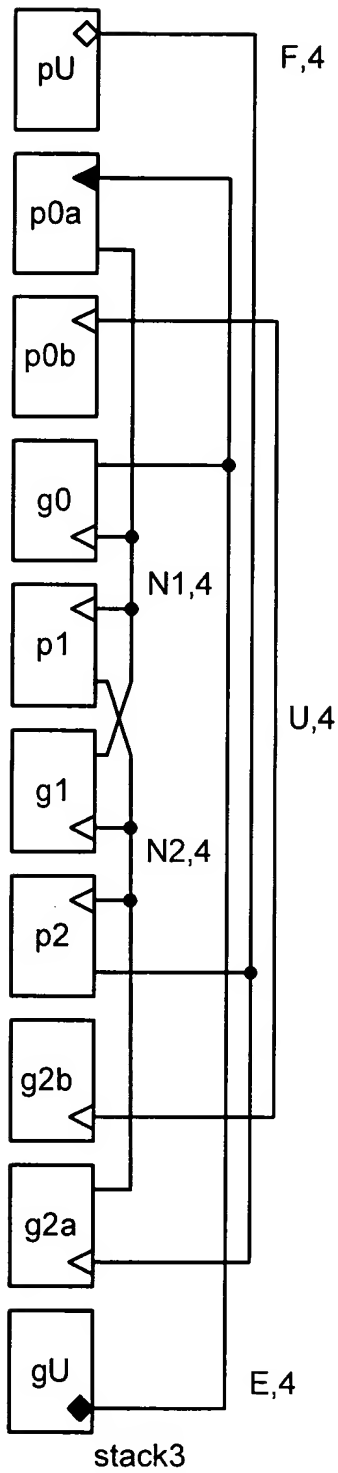


FIG. 13A

```
stack3 =  
state E where  
    E = ( p0a -> N1  
          | gU  -> E  )  
    N1 = ( p1  -> N2  
          | g0  -> E  )  
    N2 = ( p2  -> F  
          | g1  -> N1 )  
    F = ( pU  -> F  
          | g2a -> N2 )  
    U = ( p0b | g2b )  
end
```

FIG. 13B

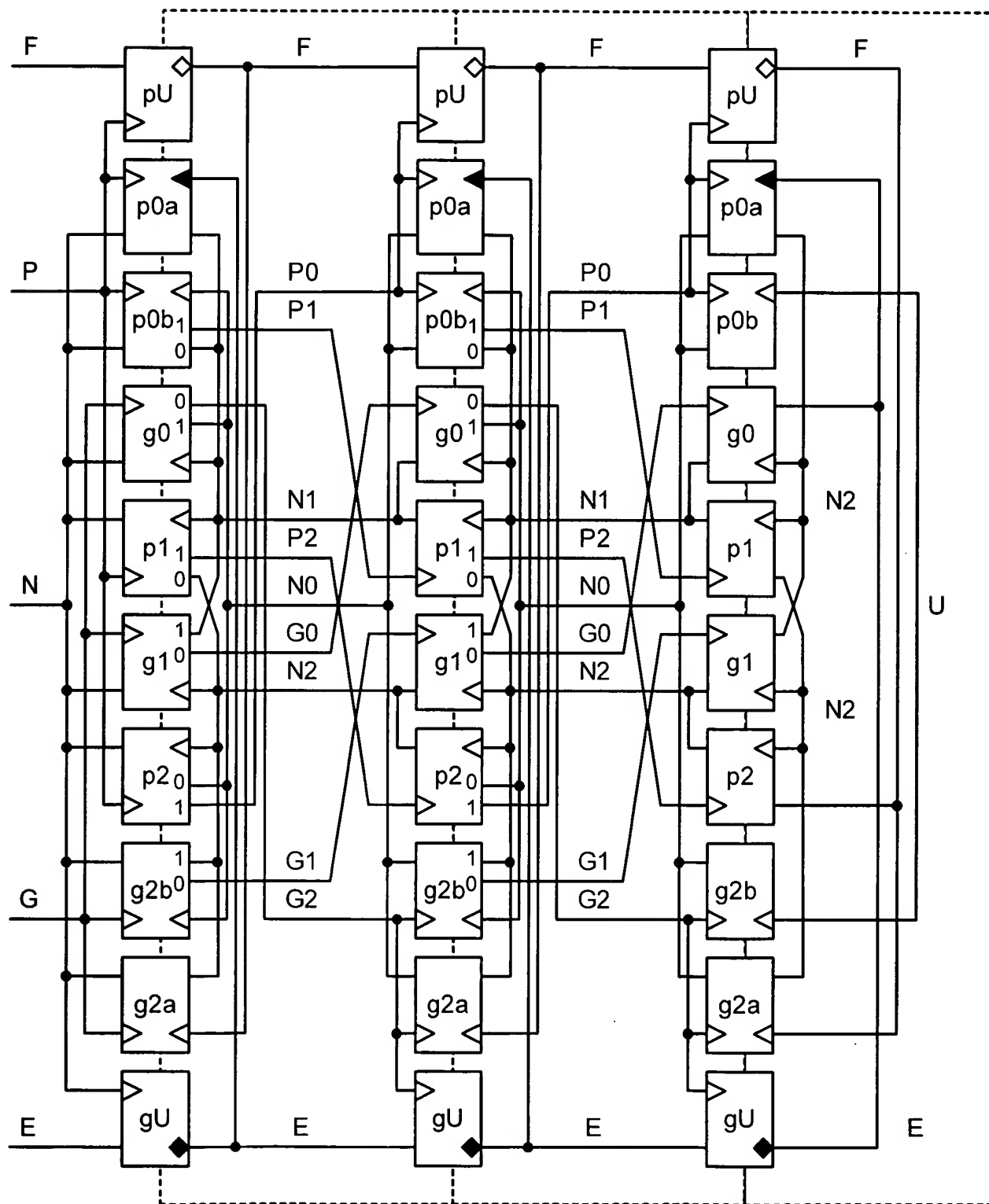


FIG. 14

Symbol

Implementation

Symbol

Implementation

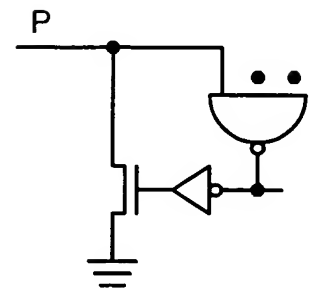
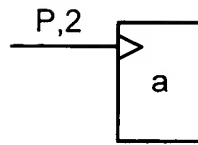
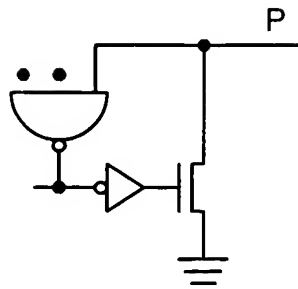
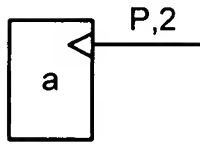


FIG. 15A

Symbol

Implementation

Symbol

Implementation

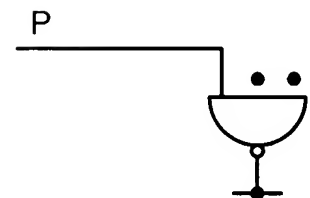
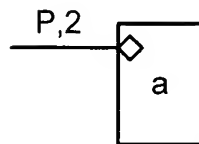
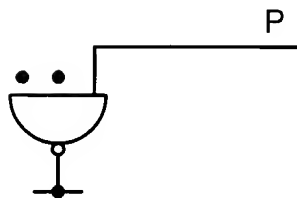
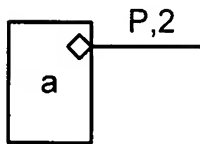


FIG. 15B

Symbol

Implementation

Symbol

Implementation

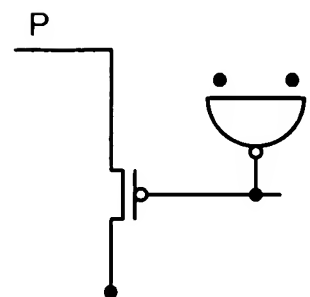
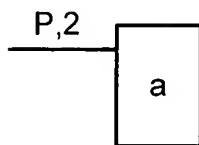
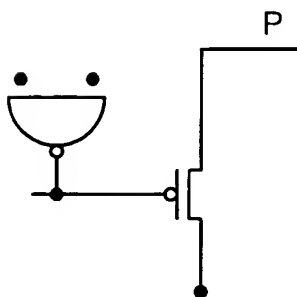
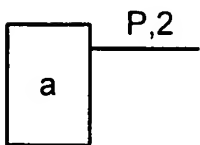


FIG. 15C

2050E0-466T600T

Symbol

Implementation

Symbol

Implementation

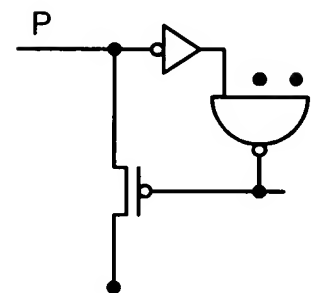
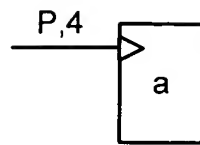
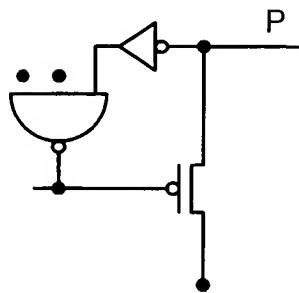
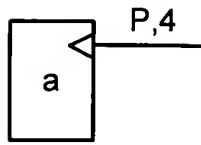


FIG. 16A

Symbol

Implementation

Symbol

Implementation

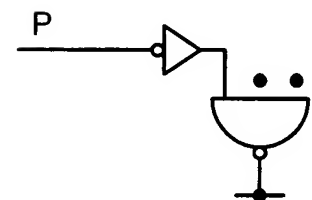
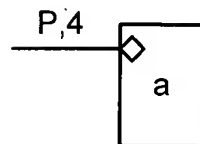
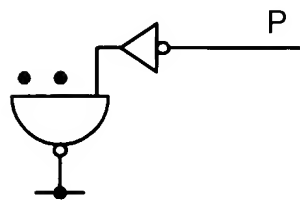
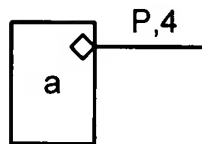


FIG. 16B

Symbol

Implementation

Symbol

Implementation

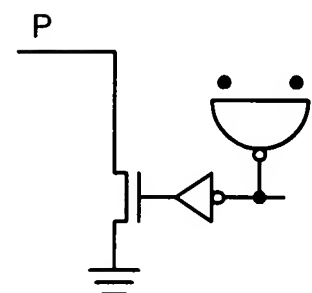
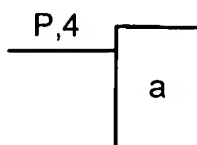
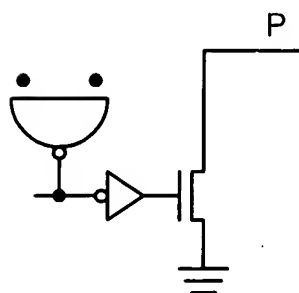
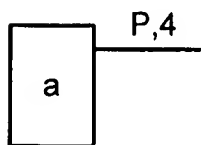


FIG. 16C

205050-466T6001

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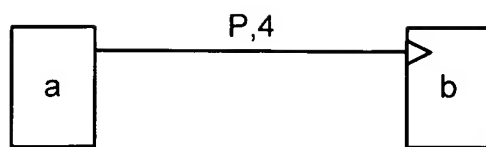


FIG. 17A

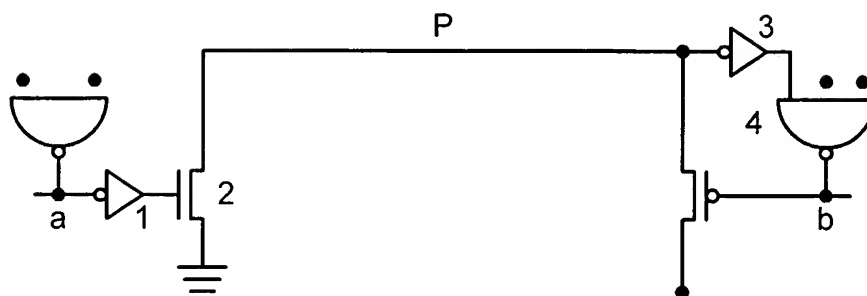


FIG. 17B

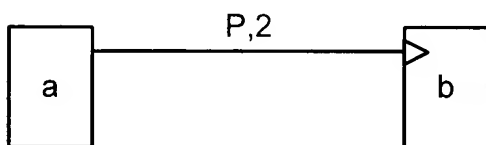


FIG. 17C

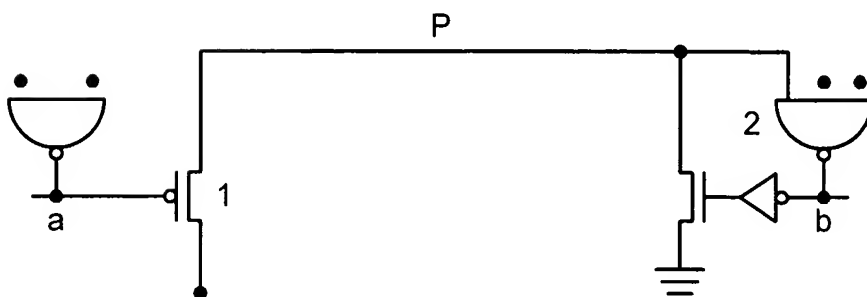
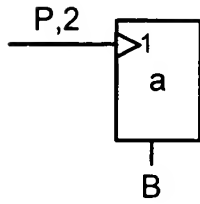
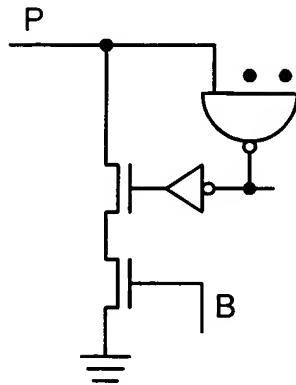


FIG. 17D

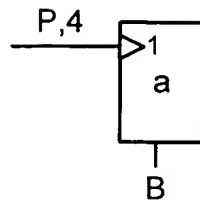
Symbol



Implementation



Symbol



Implementation

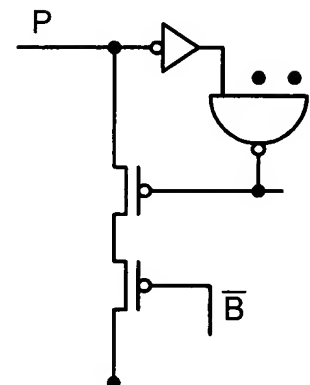
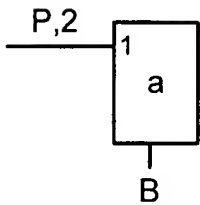
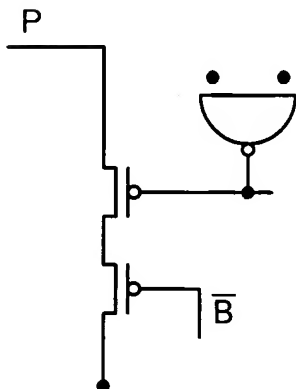


FIG. 18A

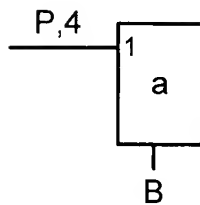
Symbol



Implementation



Symbol



Implementation

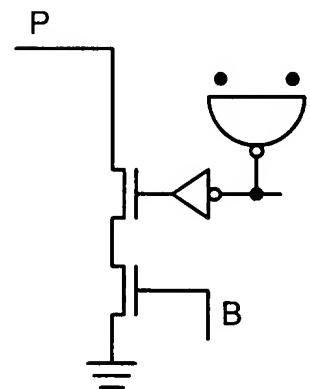


FIG. 18B

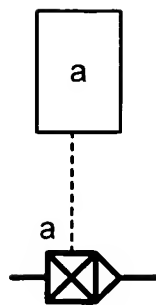


FIG. 19A

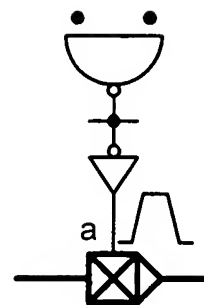


FIG. 19B